

ABSTRACT

The spring steel according to the present invention is a spring steel excellent in sag resistance and fatigue property containing: C: 0.5 to 0.8% by mass (hereinafter, referred to as %),
5 Si: 1.2 to 2.5%, Mn: 0.2 to 1.5%, Cr: 1.0 to 4.0%, V: 0.5% or less (including 0%), P: 0.02% or less (excluding 0%), S: 0.02% or less (excluding 0%), Al: 0.05% or less (excluding 0%), and Fe and inevitable impurities as the balance, wherein the Si content and the Cr content satisfy the following formula (1):

$$0.8 \times [\text{Si}] + [\text{Cr}] \geq 2.6 \dots (1)$$

10 (wherein, [Si] and [Cr] respectively represent the Si content (%) and the Cr content (%)).

The spring steel is useful in improving both sag resistance and fatigue property.